HYDROSEEDING & HYDROMULCHING

& hydromulching projects can be very complex with different slopes, soils, soil amendments, climate, amounts & types of mulch, tackifiers, & seed (both cover crop & final species mix) to be

three step process: first pass can be seed, soil amendments, water, fertilizer, etc. to ensure good seed-soil contact. Second pass can be blown straw or not, then second/third pass a hydromulch/tackifier blend. Always follow manufacturer's recommended application rates. Shoot mixtures in at least two opposite directions

Hydroseeding & Hydromulching can be very effective for fast cover on disturbed & steep areas, Many stream projects have had good results with wood-based Bonded Fiber Matrix (BFM) or Flexible Growth Medium

Looking good - less than 5 weeks after hydroseeding, mix of 10 lbs #/acre of Riverbank Wildrye, (Elymus riparius)
5 lbs #/ac Creeping Bentgrass, (Agrostis stolonifera)
5 lbs #/ac Annual Ryegrass, (Lolium multiflorum)

Aug 10, 2007

PERFORMANCE PROPERTIES OF SELECTED HYDROSEED/HYDROMULCH MIXES

Table 1: Summary of performance properties of hydraulically applied erosion control materials

Property	Test Method	Hydraulic Mulch	Stabilized Fiber Matrix	Bonded Fiber Matrix	Flexible Growth Medium
Percent Effectiveness [1,2]	ASTM D6459 ECTC Test Method #2	<75% (30 minute duration)	>90% (30 minute duration)	>90% (60 minute duration)	>99% (60 minute duration)
Cure Time	Observed	12-24 hr	12-36 hr	24-48 hr	No curing period
Shear Stress	ASTM D7207	0	0	0	1 lb/ft^2
Vegetative Establishment	ECTC Test Method #4	not reported	not reported	600%	800%
Functional Longevity	Observed	< 3 months	3-6 months	6-12 months	>12 months

[1] Intensity of 5 inches per hour
[2] Percent effectiveness (PE) is related to the cover factor (C factor) by PE = (1-C) x 100%

Flexible Growth Medium is the strongest!

From CE News/Aug 2006

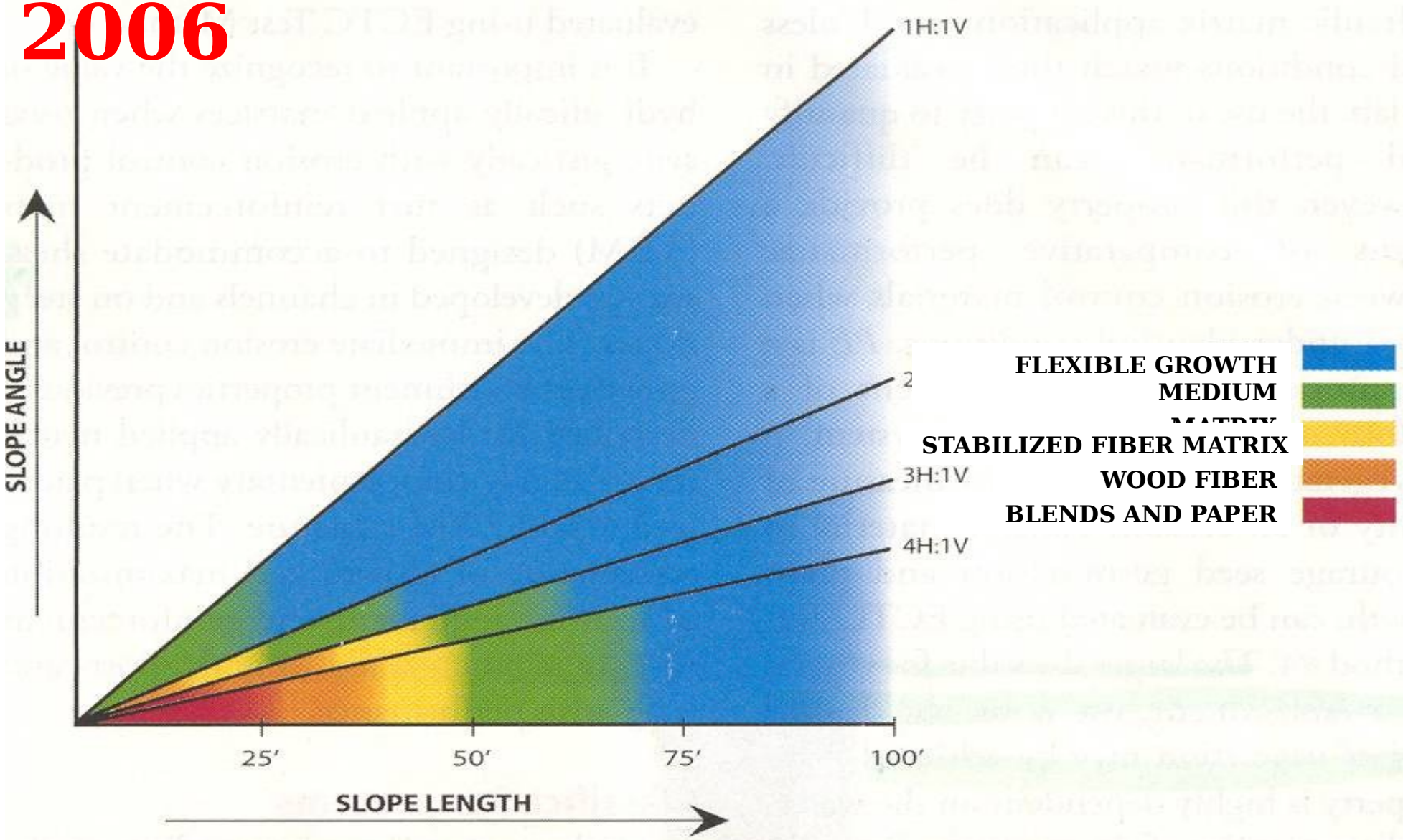

Figure 1: Hydraulically applied erosion control materials selection guideline

presentation was developed & built by Dave Derrick.

Any questions or comments, call my personal cell @ 601-218-7717, or email @ d_derrick@r2d-eng.com

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